

Muon Piston-Cavity Calorimeter (MPC)

Mechanical Design
And
Installation

Of The MPC North Assembly

Don Lynch
MPC North Safety Review
June 22, 2006

MPC North Safety Review

TOF W

Prepare installation Fixtures

13 days 7/19/2006 8/4/2006

Mockup test installation

2 days 7/19/2006 7/20/2006

TOF Mechanical installation

1 day 7/21/2006 7/21/2006

TOF Electrical Installation

2 days 7/31/2006 8/1/2006

3 days 8/2/2006 8/4/2006

RXNP

Prepare for installation

15 days 7/31/2006 8/18/2006

Mechanical installation

5 days 7/31/2006 8/4/2006

Electrical installation

5 days 8/7/2006 8/11/2006

5 days 8/14/2006 8/18/2006

HBD

Prepare for installation

15 days 8/14/2006 9/1/2006

Mechanical installation

5 days 8/14/2006 8/18/2006

Electrical Installation

5 days 8/21/2006 8/25/2006

5 days 8/28/2006 9/1/2006

MPC N

Move CM south

18 days 8/28/2006 9/20/2006

Prepare for installation

2 days 8/28/2006 8/29/2006

Mechanical installation

5 days 8/30/2006 9/5/2006

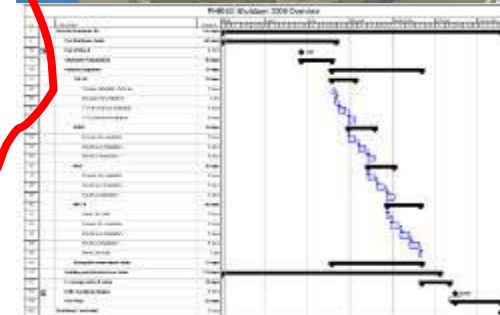
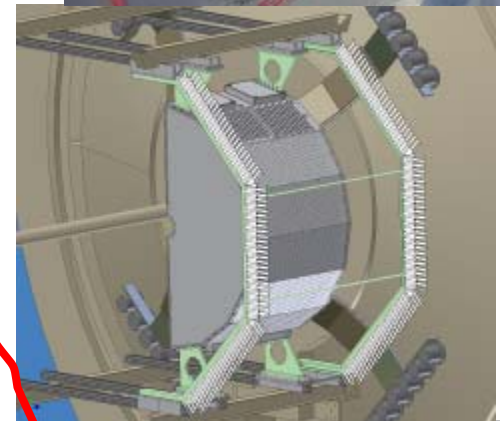
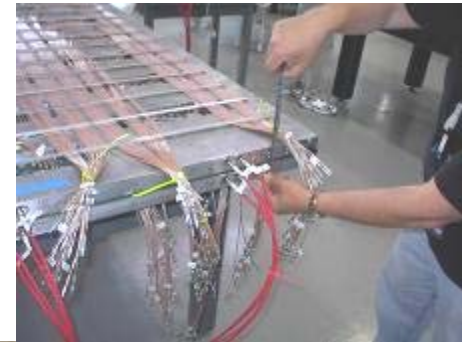
Electrical installation

5 days 9/6/2006 9/12/2006

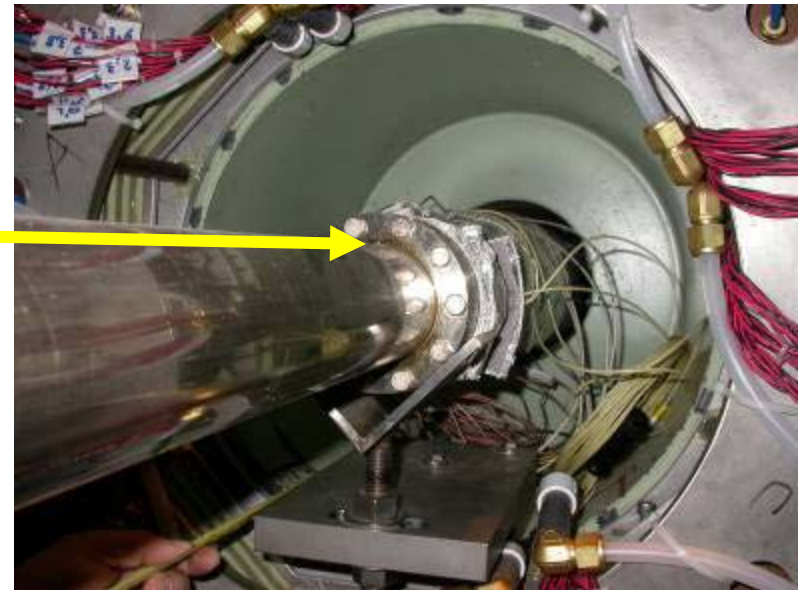
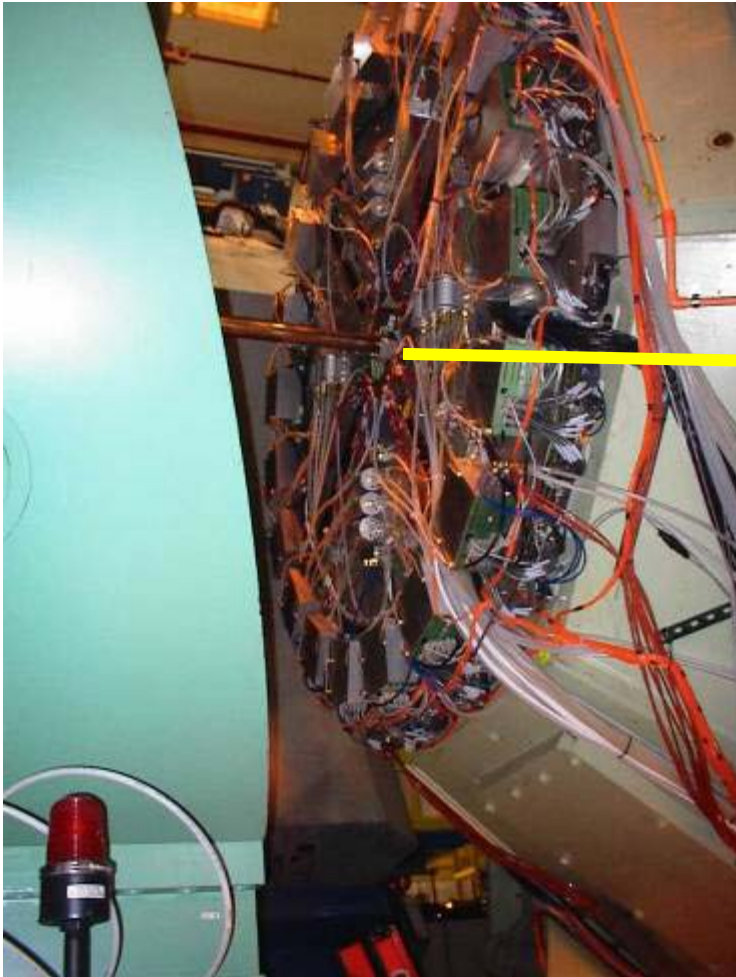
Move CM North

5 days 9/13/2006 9/19/2006

1 day 9/20/2006 9/20/2006



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June 22, 2006

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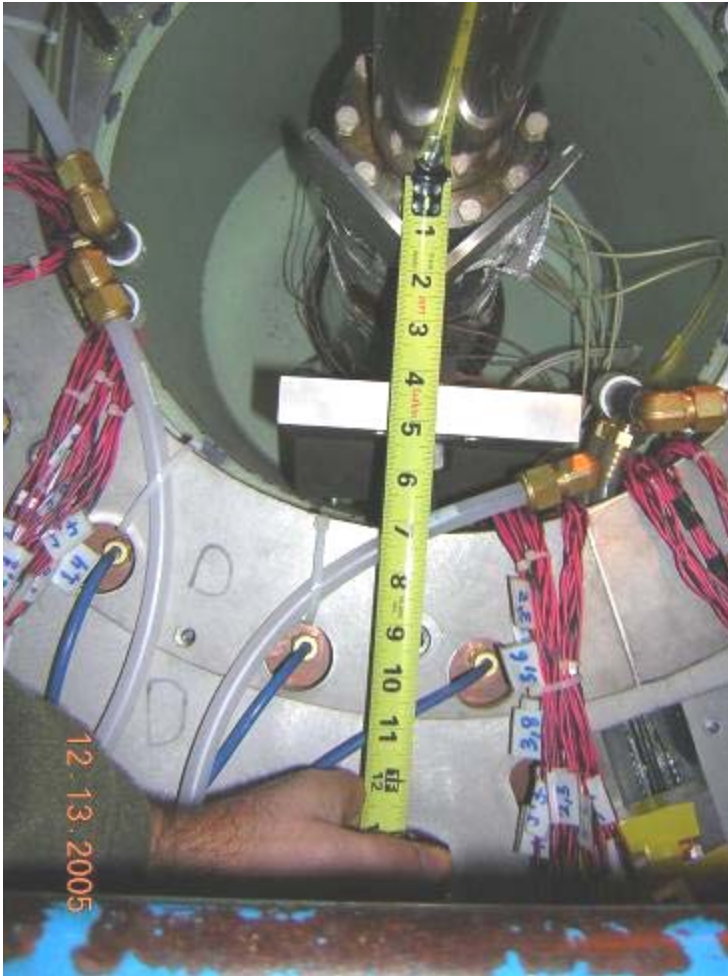
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June 22, 2006

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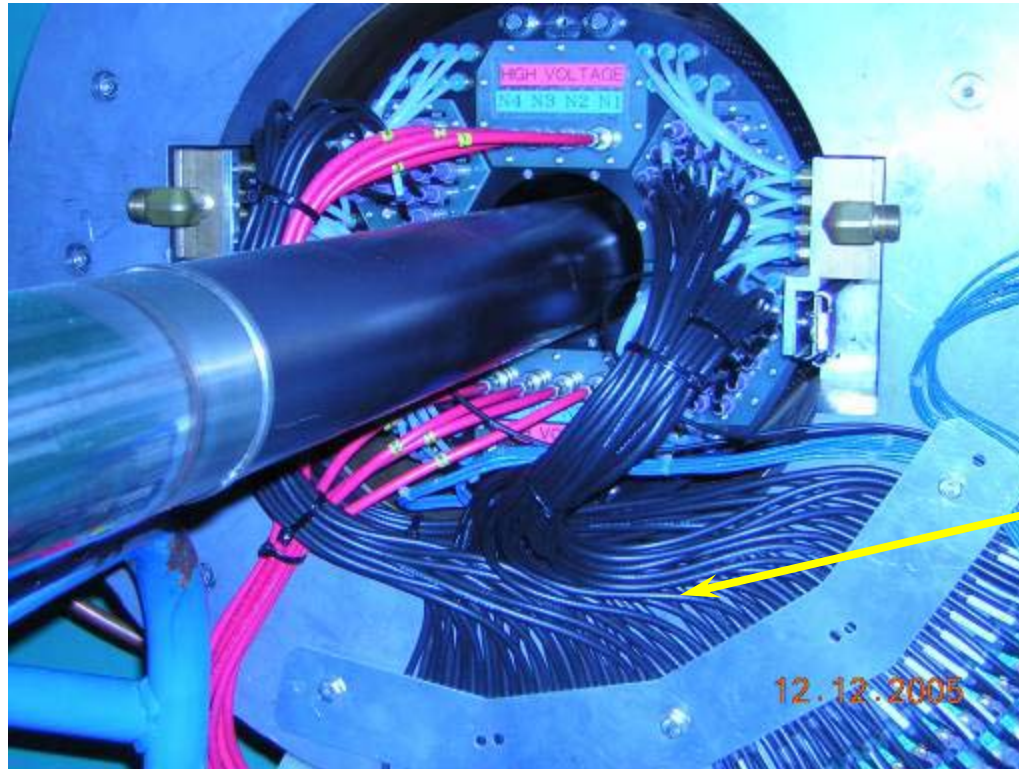
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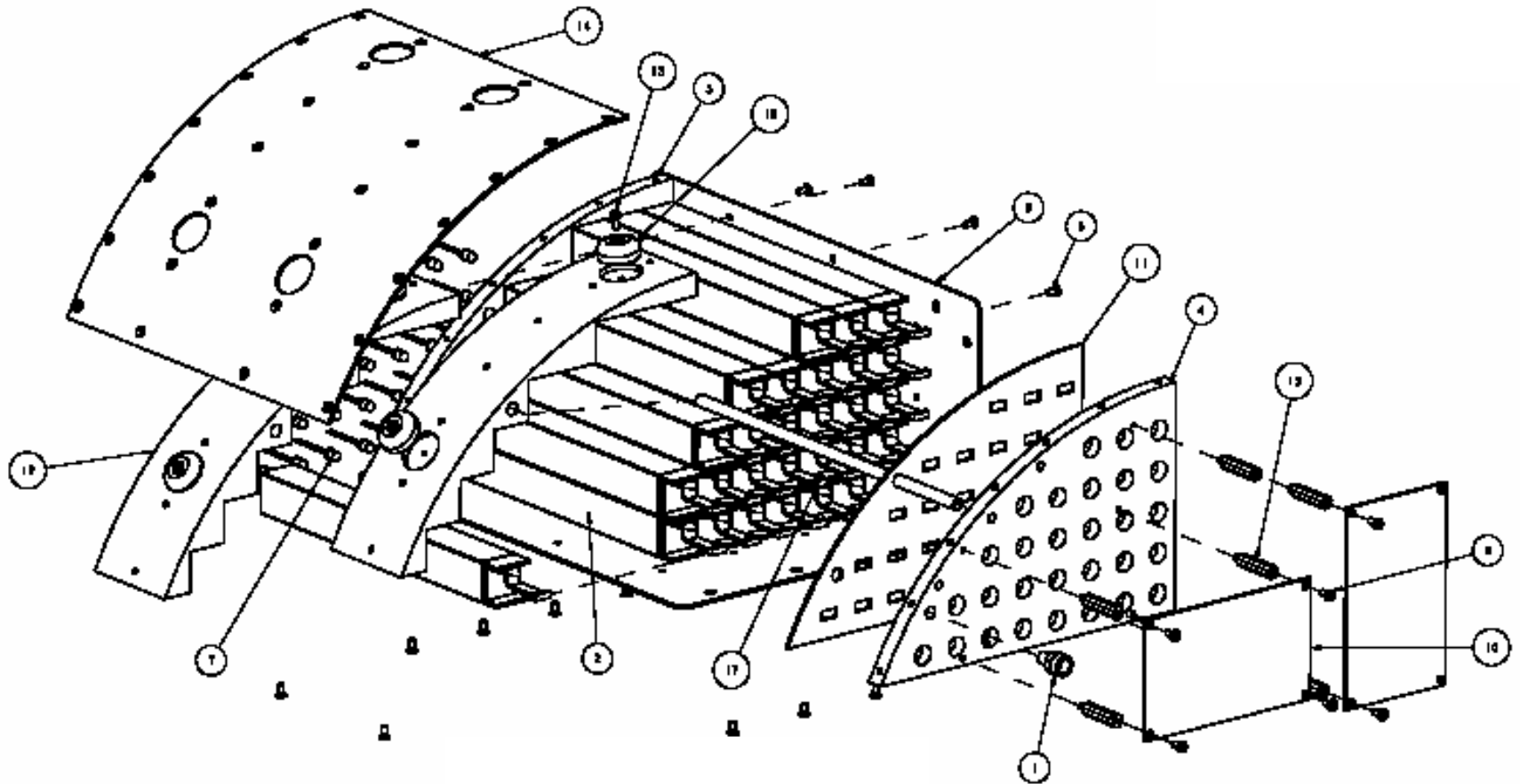
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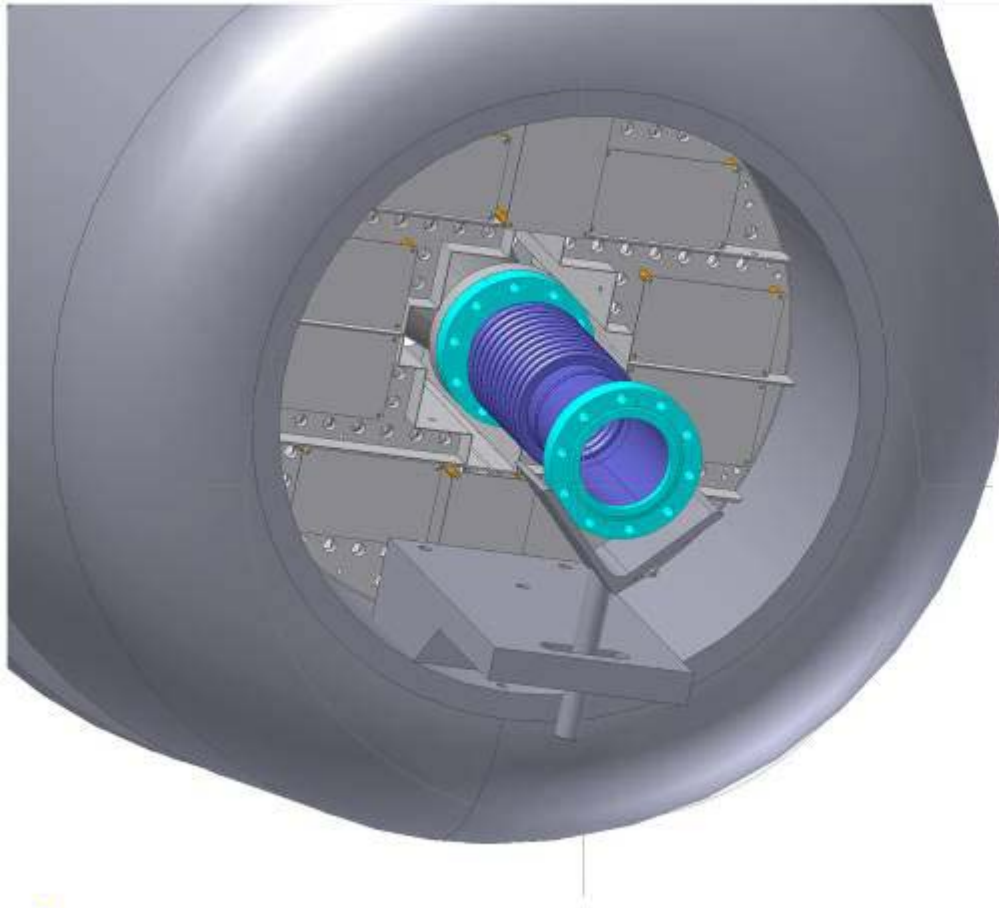


These cables protrude into the muon piston cavity when the MMN is in the closed (run) position

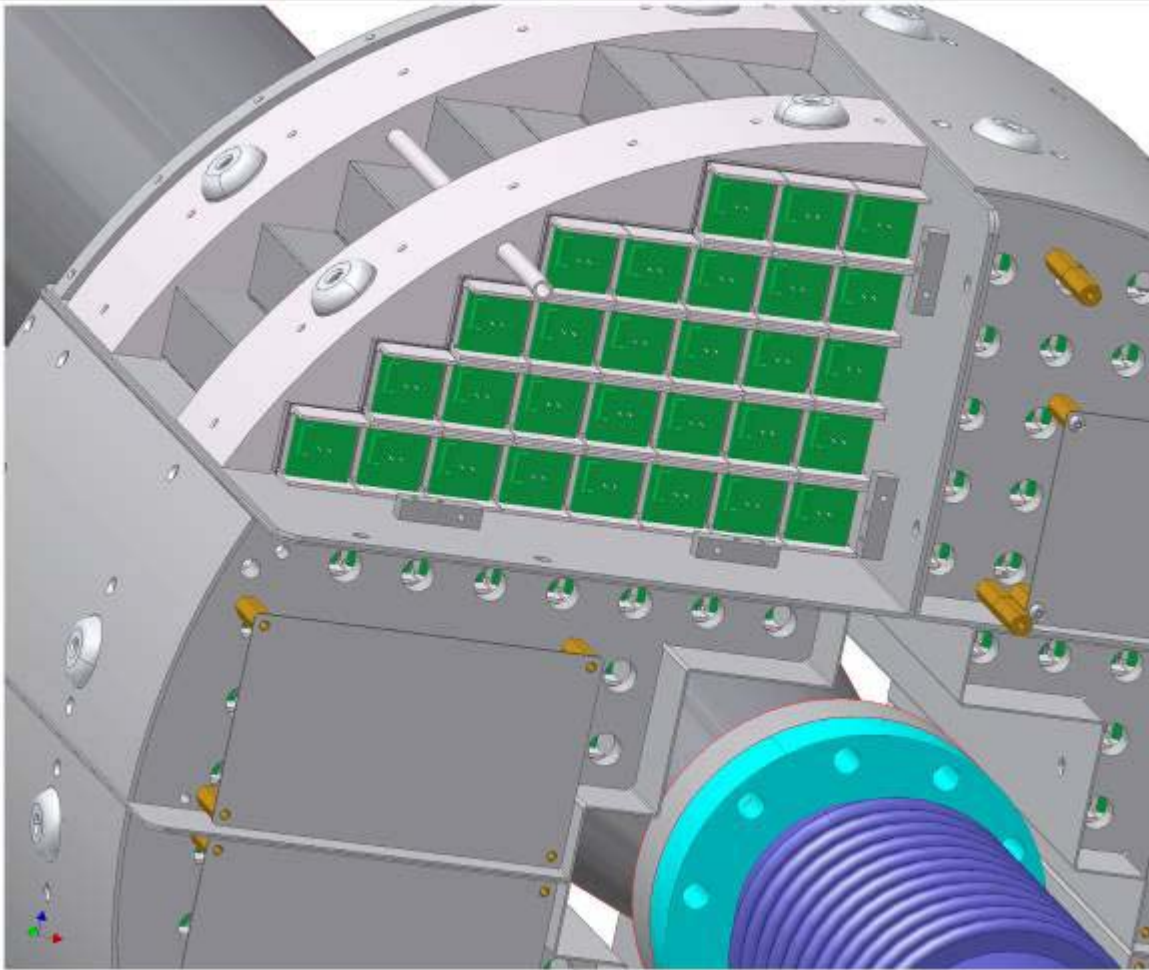
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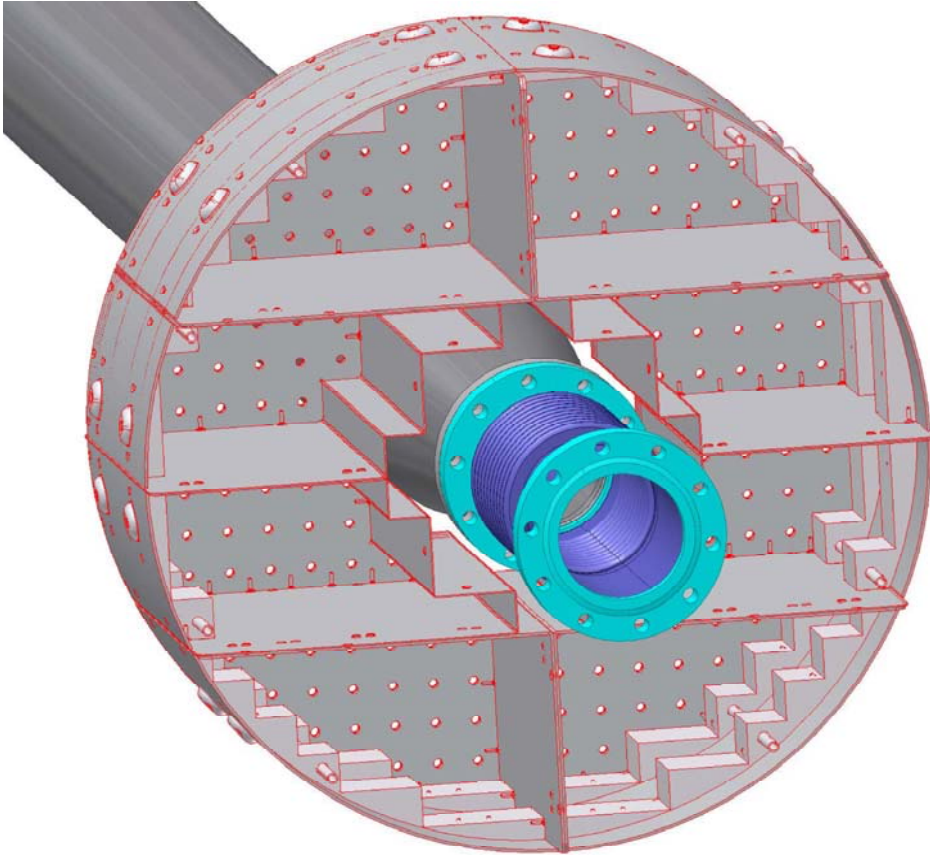
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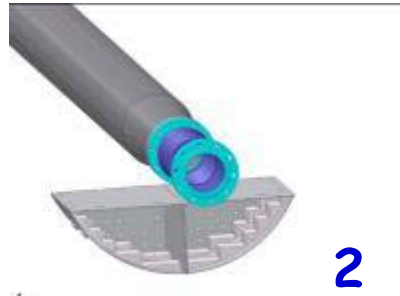
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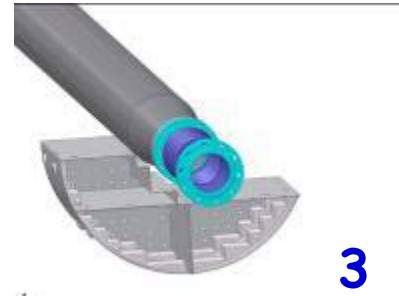
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1



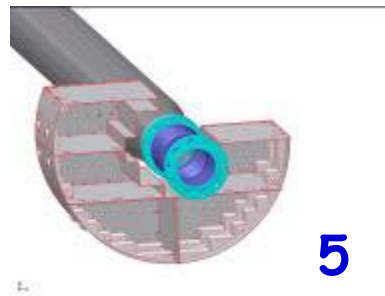
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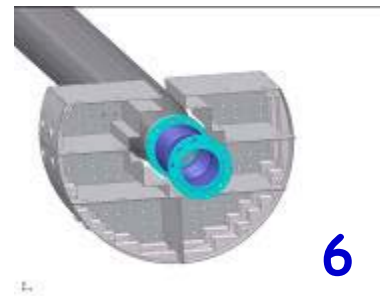
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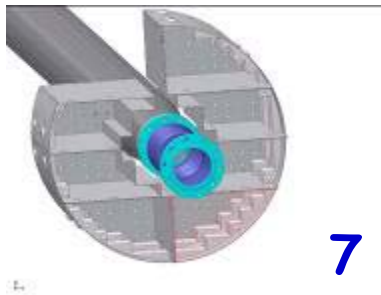
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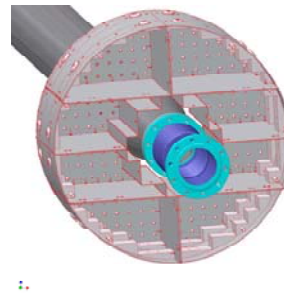
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6



7



8

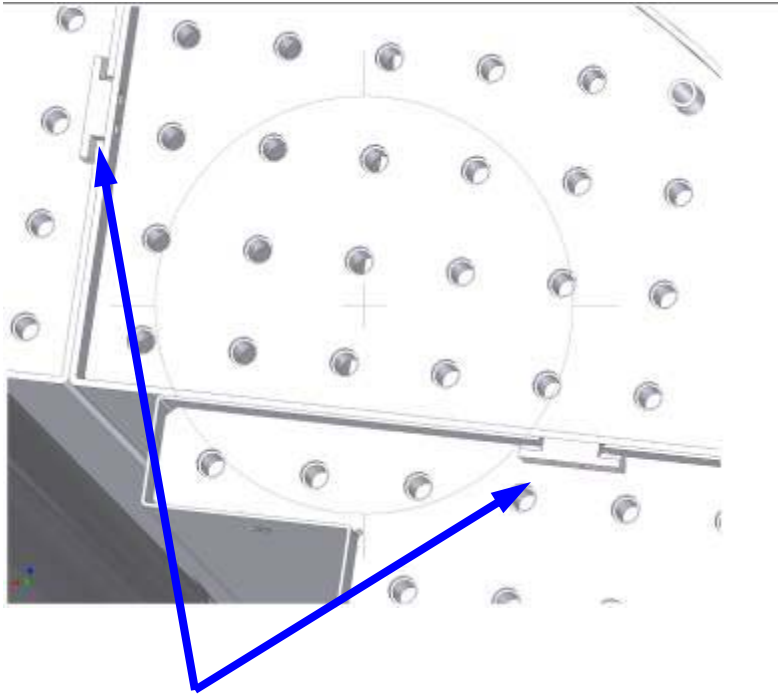
Empty octants are installed first. LED's and LED board are already attached.

Then modules are individually inserted.

Next APD cable is attached then snaked through cover which is attached.

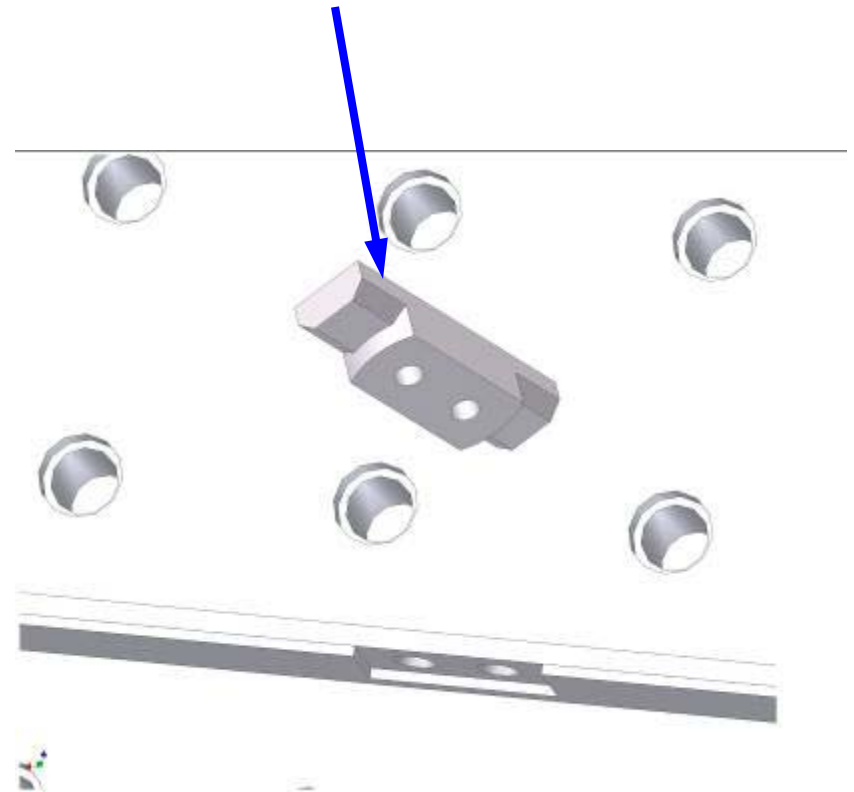
Finally, standoffs and signal pcbs are attached, wired and routed to MPC N rack.

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Modules interconnect at rear using tabs as in MPC S

Tabs for MPC N modified for increase clearance and rounded for easy locating and self centering



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MPC N rack to be mounted ontop of MUID rack in NW of IR (on floor near west side of MMN)

